

Ocular Oncology

SEC 2024

The Collaborative Ocular Melanoma Study (COMS) reported a 0.48% misdiagnosis rate for choroidal melanoma, indicating that eye cancer specialists can correctly diagnose over **99.6% of cases without a biopsy.**

Clinical Study | Published: 10 February 2006

Accuracy of choroidal melanoma diagnosis by general ophthalmologists: a prospective study

J.Khan <sup>OR</sup> & B.E.Damato

Eye 21, 595-597 (2007) | Cite this article

1684 Accesses | 23 Citations | Metrics

Conclusion

Approximately 30% of patients referred to an ocular oncology service with the diagnosis of choroidal melanoma have an incorrect diagnosis.

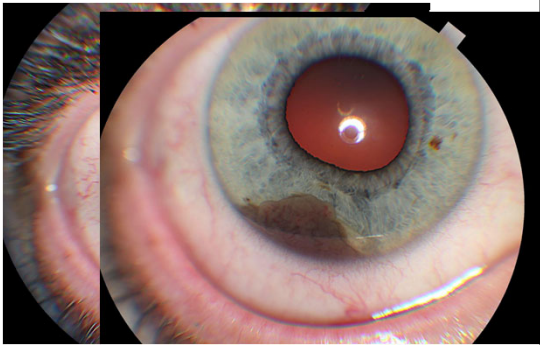
TABLE. CHOROIDAL NEVUS TRANSFORMATION INTO MELANOMA IN 2,355 CASES

Variable	Letter(s)	Mnemonic	Representation	Hazard ratio (95% CI) by multivariable analysis	P value
Tumor thickness: > 2 mm vs ≤ 2 mm	T	To	Thickness > 2 mm by ultrasonography	3.80 (2.22-6.50)	< .0001
Fluid subretinal: Cap vs none vs 3 mm from nevus vs none	F	Find	Subretinal fluid by OCT	3.00 (1.77-5.09) 3.56 (1.78-7.12)	< .0001 .0003
Symptoms: visual acuity loss 20/50 or worse vs better	S	Small	Symptoms, vision loss by Snellen	2.28 (1.28-4.04)	.0050
Orange pigment: present vs absent	O	Ocular	Orange pigment by fundus autofluorescence	3.07 (1.65-5.74)	.0004
Melanoma acoustic density: hollow vs solid	M	Melanoma	Melanoma hollow by ultrasonography	2.10 (1.31-3.37)	.0020
Tumor diameter: > 5 mm vs ≤ 5 mm	DIM	Doing IMaging	Diameter by photography	1.84 (1.07-3.17)	.0275

Adapted from: Shields CL, Dalvin LA, Ancona-Lezama D, et al. Choroidal nevus imaging features in 3,806 cases and risk factors for transformation into melanoma in 2,355 cases. The 2020 Taylor R. Smith and Victor T. Curtin Lecture. Retina. 2019;39(10):1840-1851.



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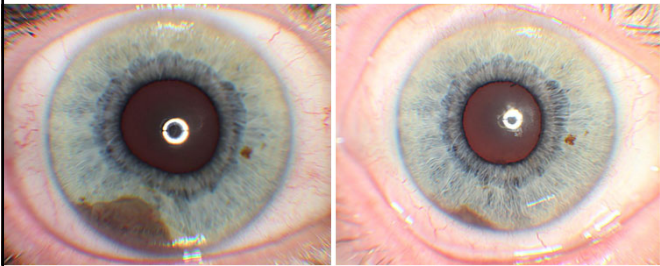
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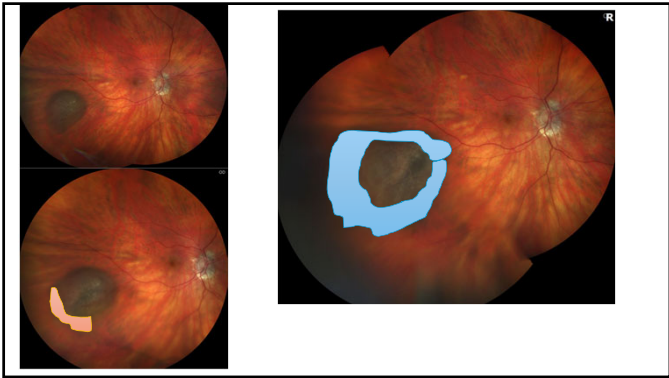
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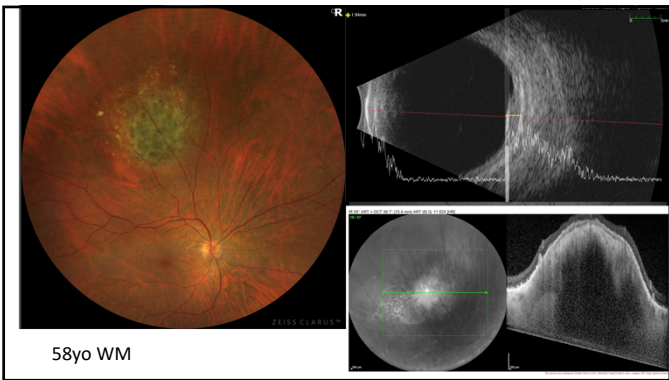
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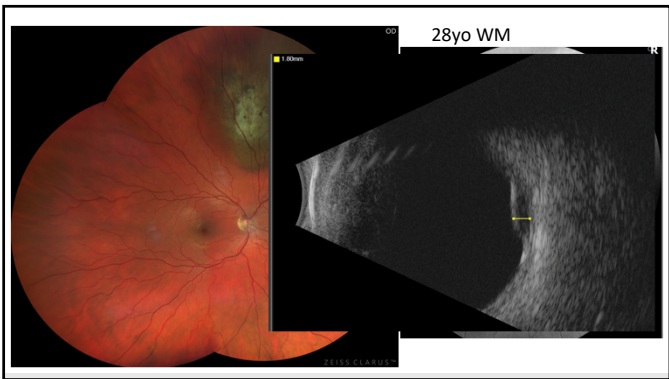
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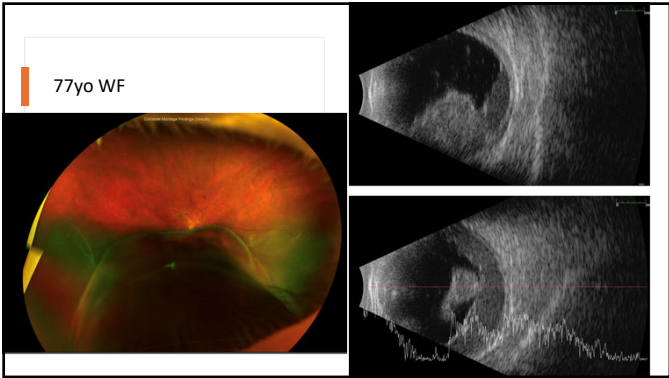
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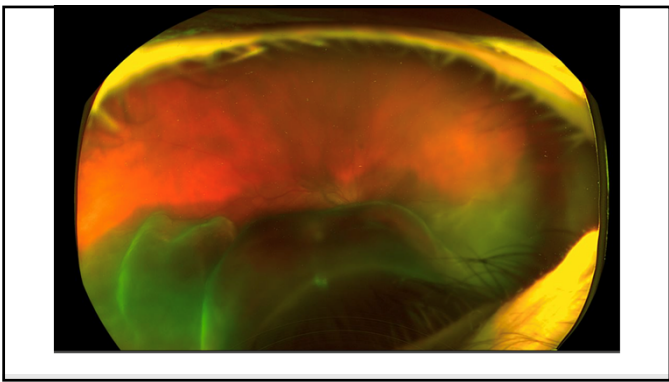
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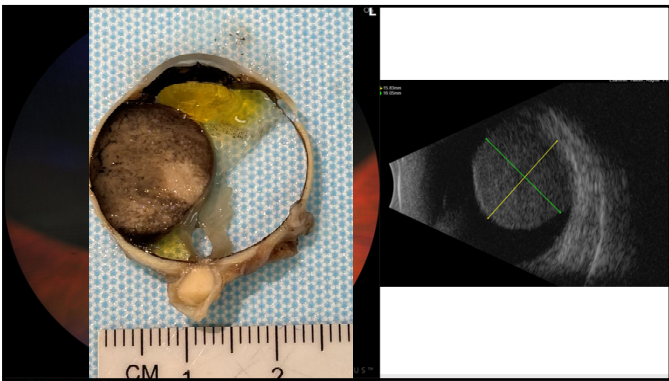
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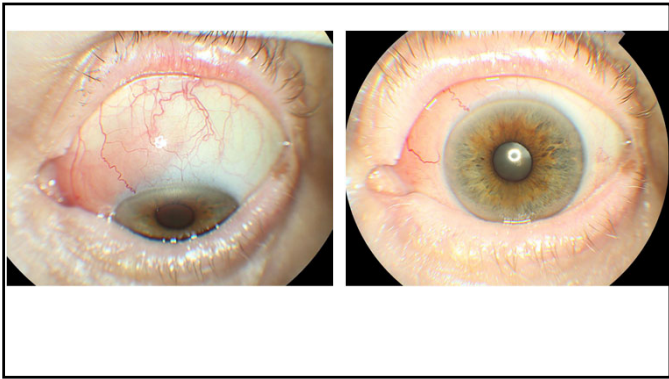
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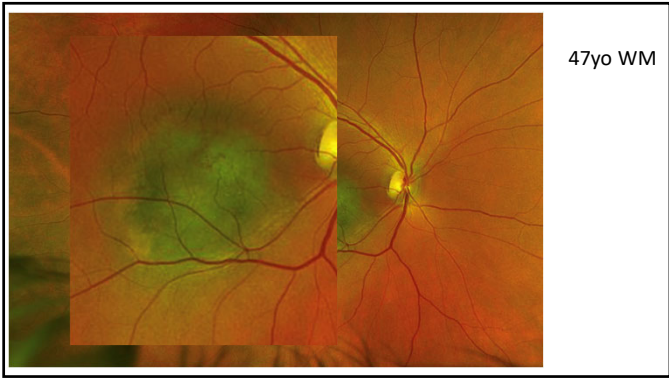
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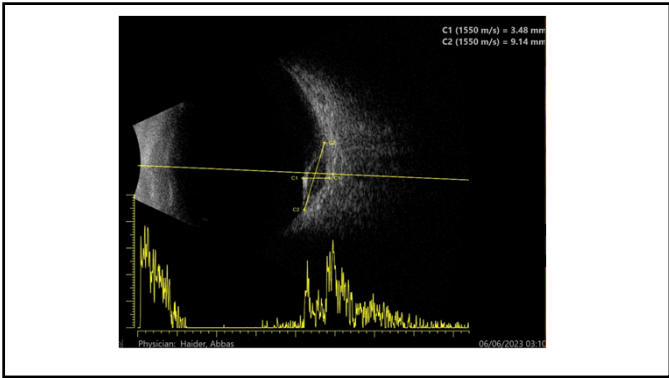
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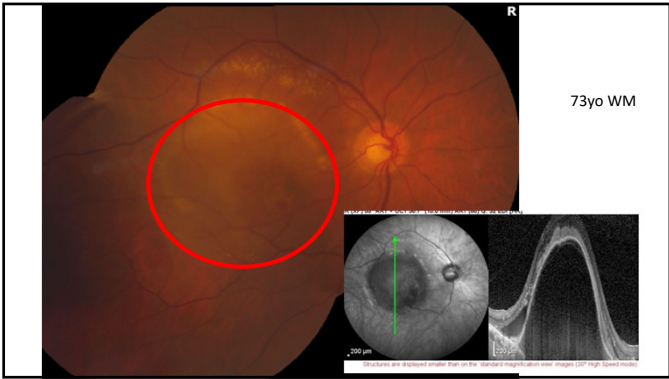
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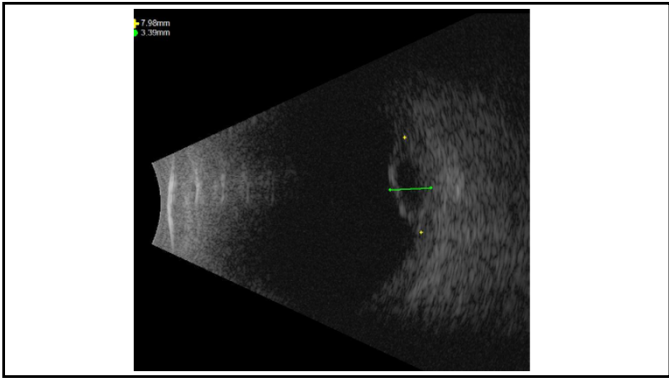
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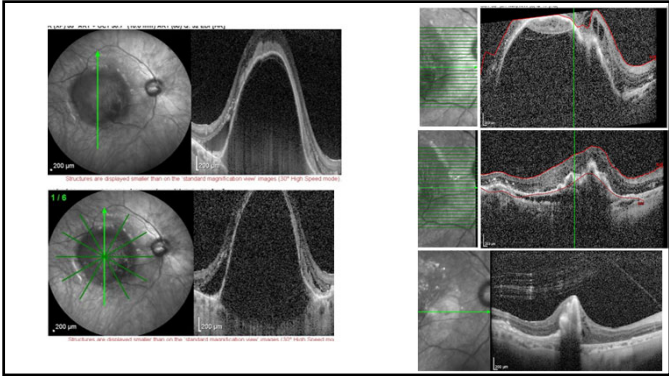
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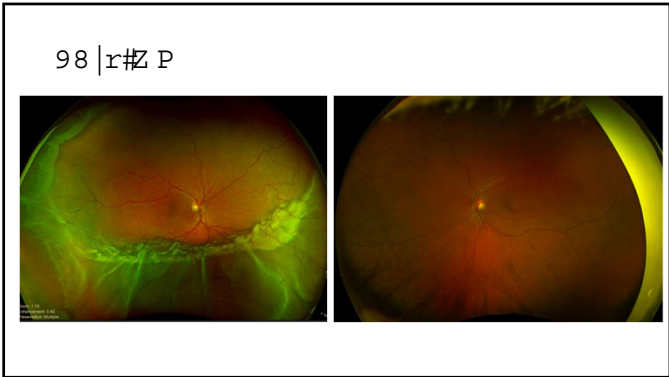
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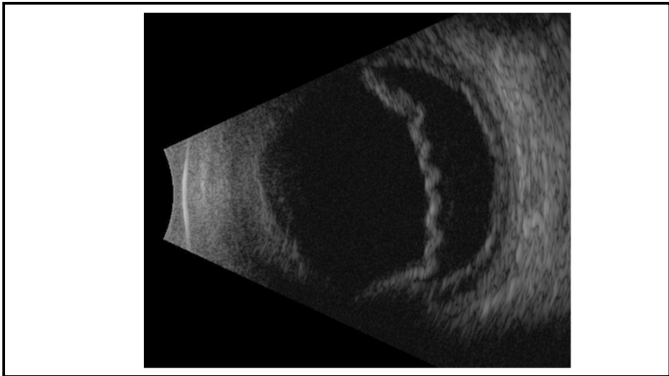
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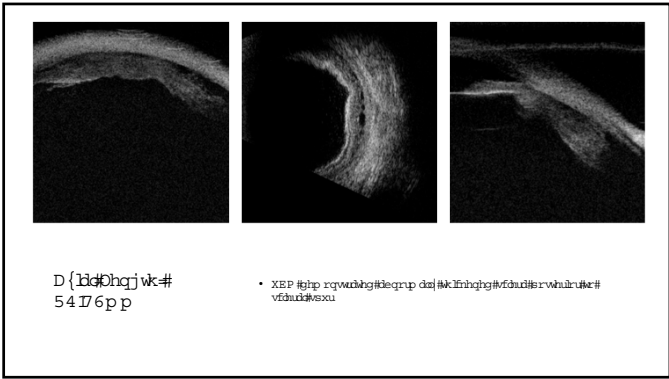
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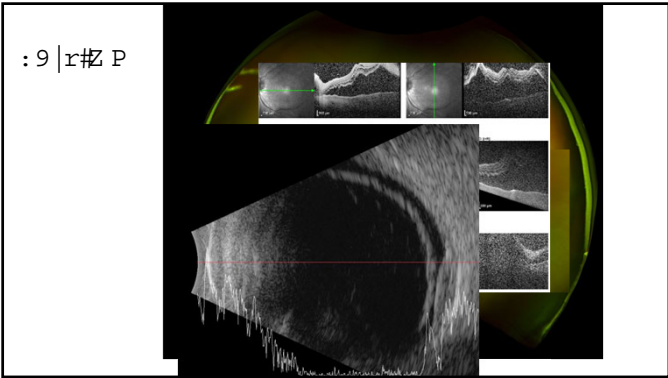
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Procedure	Result	Units	Reference Range
Mitogen-Nil CQ	>10.00	IntlUnit/mL	
Nil CQ	0.03	IntlUnit/mL	
TB1-NILCQ	1.01	IntlUnit/mL	
TB2-NILCQ	0.92 <sup>13</sup>	IntlUnit/mL	
QntiFERONTBPlus4TC Q	<b>POSITIVE</b> *14		[NEGATIVE]

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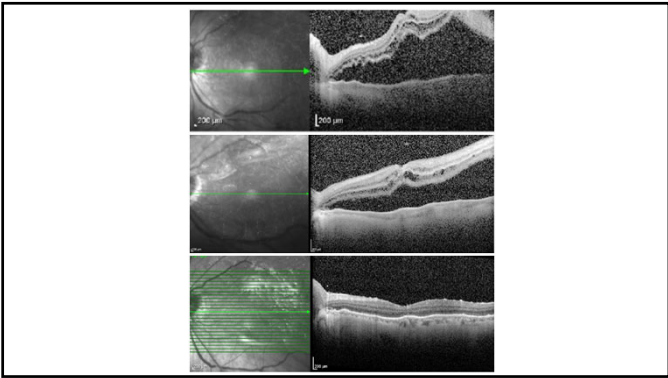
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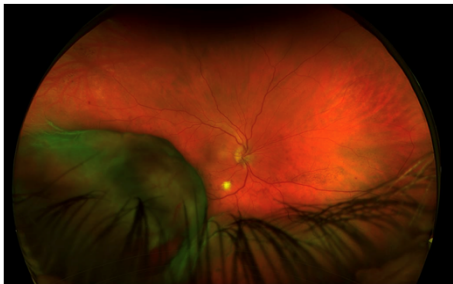
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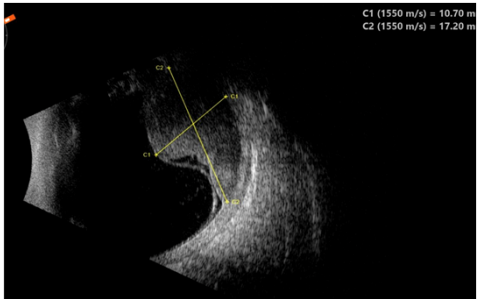
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